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Docket No.: 1169-033

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Otto DIDEBERG et al.

U.S. Patent Application No. *not yet assigned*Filed: *herewith*

Confirmation No.

For: STREPTOCOCCUS PNEUMONIAE PBP2X MINI-PROTEIN AND USES THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

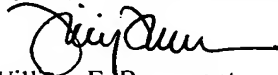
In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed with the application and no certification or fee is required.

Please note this is a PCT application in the entry of the National Phase in the U.S. and copies of the references cited were transmitted by WIPO and are believed to be in the file of the above-identified application and readily available to the Examiner. Therefore it is believed that Applicants have met all requirements regarding duty of disclosure under 37 CFR 1.56. A copy of the foreign search report is attached for the Examiner's information. Acknowledgement and consideration of these documents are respectfully requested.

Respectfully submitted,

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 1169-033		U.S. APPLICATION NO. <i>Not yet assigned</i>	
				APPLICANT Otto DIDEBERG et al.			
				FILING DATE <i>herewith</i>		GROUP <i>Not yet assigned</i>	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	98/48041 A2	10/1998	WO				
	98/48041 A3	10/1998	WO				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	The Crystal Structure of the Penicillin-binding Protein 2x from Streptococcus pneumoniae and its Acyl-enzyme Form: Implication in Drug Resistance, J. Mol. Biol. (2000) Vol. 299, No. 2, pp. 477-485.						
	Nucleotide sequences of the pbpX genes encoding the penicillin-binding proteins 2x from Streptococcus pneumoniae R6 and a cefotaxime-resistant mutant, C506, Molecular Microbiology, Blackwell Scientific, Oxford, GB, Vol. 3, No. 10, 1989, pp. 1337-1348.						
	X-ray structure of Streptococcus pneumoniae PBP2x, a primary penicillin target enzyme, Natural Structural Biology, Vol. 3, No. 3, March 1996, pp. 284-289.						
	Crystal Structure of PBP2x from a Highly Penicillin -resistant Streptococcus pneumoniae clinical Isolate, The Journal of Biological Chemistry, Vol. 276, No. 48, Nov. 30, 2001, pp. 45106-45112, 2001.						
	Mutations in the Active Site of Penicillin-binding Protein PBP2x from Streptococcus pneumoniae, The Journal of Biological Chemistry, The Journal of Biological Chemistry, Vol. 274, No. 27, July 2, 1999, pp. 19175-19180.						
	Identification of a Structural determinant for resistance to β-lactam antibiotics in Gram-positive bacteria, Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 13403-13406, November 1998.						
	Diversity of Substitutions within or Adjacent to Conserved Amino Acid Motifs of Penicillin-Binding Protein 2X in Cephalosporin-Resistant Streptococcus pneumoniae Isolates, Antimicrobial Agents and Chemotherapy, May 1999, Vol. 43, No. 5, May 1999, pp. 1252-1255.						
	High-throughput structural proteomics using x-rays, Trends in Biotechnology, Vol. 19, No. 10 (Suppl.) October 2001, pp. S67-S71.						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.